



Multi-Polarized Antennas

Multi Band, Multi Polarized,
Flat Panel & OMNI
Any Size, Any Frequency, Any Gain Ratio

MOBILE INDOOR
LTE MIMO OMNI WI-FI
WLAN
OUTDOOR

www.mars-antennas.com

MIMO low/mid/high gain

802.11ac standard

(5X5 & 4X4 & 3X3 antennas)

Part Number	Gain	Frequency band	Dimensions	Page
5 X 5				
MA-WA56-MIMO5-14	5X13.5 dBi	5.1-5.9 GHz	305X305X15 mm 12"X12"X0.6"	3
4 X 4 - QUAD Polarization MIMO				
MA-WA25-QP4MIMO14	4X13.5dBi	2.3-2.7 GHz	370X370X40 mm 14.6"X14.6"X1.5"	4
MA-WC25-2DS17 (65°)	4X17dBi	2.3-2.7 GHz	812 X 470 X 70 mm 31.9"X18.5"X2.7"	5
MA-WE2458-MIMO4-5 (120°)	4X5dBi	2.3-2.7 GHz & 4.9-6.1 GHz	200X200X33 mm 7.9"X7.9"X1.25"	6
MA-WA2455-QPMIMO	16dBi @ 5.15-5.875 GHz 12dBi @ 2.3-2.7 GHz	2.3-2.7 GHz & 5.15-5.875 GHz	305X305X15 mm 12"X12"X0.6"	7
MA-WD2455-DS18 (90°)	18dBi @ 5.1-5.9 GHz 16dBi @ 2.3-2.7 GHz	2.3-2.7 GHz & 5.1-5.9 GHz	807X464X50 mm 31.77"X18.27"X1.97"	8
MA-WC2458-MIMO4-8 (90°)	4X6dBi	2.4-2.5 GHz & 5.15-5.875 GHz	200X200X33 mm 7.9"X7.9"X1.25"	9
MA-WC2458-QP6 (90°)	4X6dBi	2.4-2.5 GHz & 5.15-5.875 GHz	200X200X33 mm 7.9"X7.9"X1.25"	10
MA-WD2455-DBDP17 (90°)	17dBi @ 5.1-5.9 GHz 15dBi @ 2.4-2.5 GHz	2.4-2.5 GHz & 5.1-5.9 GHz	812X330X70 mm	11
MA-WA55-4QP13	4X13dBi	4.9-6.1 GHz	200X200X33 mm 7.9"X7.9"X1.25"	12
MA-WC54-2DS17 (60°)	4X17±0.5dBi	4.9-6.1 GHz	370X370X40 mm 14.6"X14.6"X1.5"	13
MA-WA57-QP4MIMO19	4X18dBi @ 4.9-5.15 GHz 4X19dBi @ 5.15-6.425 GHz	4.9-6.425 GHz	370X370X40 mm 14.6"X14.6"X1.5"	14
MA-WD55-2DS16 (90°)	15-16dBi	5.1-5.9 GHz	370X370X40 mm 14.6"X14.6"X1.5"	15
MA-WA55-QP4MIMO	4X16dBi	5.1-5.9 GHz	305X305X15 mm 12"X12"X0.6"	16
3 X 3 - Triple Polarization MIMO				
MA-WE2458-3H	3 X 5 dBi	2.3-2.7 GHz & 4.9-6.1 GHz	200X200X33 mm 7.9"X7.9"X1.25"	17
MA-WC2458-3H	3 X 7.5 dBi	2.4-2.5 GHz & 5.15-5.875 GHz	200X200X33 mm 7.9"X7.9"X1.25"	18
MA-WA24-TPMIMO	Ver. Pol 15±1 dBi Dual Slant pol. 12±1 dBi	2.3-2.7 GHz	305X305X15 mm 12"X12"X0.6"	19
MA-WD56-DSV16	3 X 16 dBi	4.9-6.1 GHz	370X370X40 mm 14.6"X14.6"X1.5"	20
MA-WA55-TPMIMO	Ver. Pol 19 dBi Dual Slant pol. 17.5 dBi	5.125-6.1 GHz	305X305X15 mm 12"X12"X0.6"	21

MA-WA56-MIMO5-14

5.1-5.9 GHz Subscriber Antenna 5MIMO

MARS subscriber 5MIMO antenna provides coverage of 5.1-5.9 GHz in a single antenna radome.

Additional Features:

- Mid/High gain.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.



Can be customized per customer requirements

802.11 ac standard applications approved

Specifications

Electrical

Frequency range	5.1-5.9 GHz
GAIN, typ.	5 x 13.5 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical & Dual Slant ($\pm 45^\circ$)
3dB Beam-Width, H-Plane, typ.	35°
3dB Beam-Width, E-Plane, typ.	35°
Side Lobes, min.	-10 dB
Cross Polarization, typ.	-15 dB
Front to Back Ratio, min.	-20 dB
Port to Port Isolation, min.	-25 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm
Connector	5 x N-Type ,Female
Weight	840 gr.
Mounting	See Ordering Options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL-94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA56-MIMO5-14	Antenna 5 x N-Type Female connectors Suited for MNT-22 mount
MA-WA56-MIMO5-14B	Antenna 5 x N-Type Female connectors with MNT-22 mount

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MA-WA25-QP4MIMO14

2.3-2.7 GHz Quad Polarization 4X4 MIMO Subscriber Antenna

MARS Quad Polarization antenna provides coverage of 2.3-2.7 GHz frequency Band.

Additional Features:

- Specially designed for MIMO applications
- Light weight and durable construction.
- UV Protected radome made of Polycarbonate.



Specifications

Electrical

Frequency range	2.3-2.7 GHz
GAIN, typ.	4 x 13.5 dBi
VSWR, max.	1.7 : 1
Polarizations	Dual Pole V&H and Dual Slant $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	33°
3 dB Beam-Width, E-Plane, typ.	33°
Side Lobes, typ.	-12 dB
Cross Polarization, typ.	-20 dB
Front to Back Ratio, typ.	-30 dB
Port to Port Isolation, typ.	-25 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x14.5" x1.6")
Weight	2 kg
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA25-QP4MIMO14	Antenna Suited for MNT-22
MA-WA25-QP4MIMO14B	Antenna with MNT-22 mount

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MA-WC25-2DS17

2.3-2.7 GHz 2 x Dual Slant Base Station Antenna, 65°

MARS MA-WC25-2DS17 is a DOUBLE Dual Slant (4X4) Base Station Antenna 65°

MA-WC25-2DS17 features:

- Efficient and stable performance with 17dBi of gain.
- Full 2.3-2.7 GHz band coverage.
- UV protected radome suitable for harsh environment installations.



Specifications

Electrical

Frequency range	2.3-2.7 GHz
GAIN, typ.	4 x 17 dBi
VSWR, max.	1.7 : 1
Polarization	2 x Dual Polarized $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	65°
3 dB Beam-Width, E-Plane, typ.	8°
Side Lobes, typ.	-12 dB
Port to Port Isolation, min.	-27 dB
Front to Back Ratio, typ.	-30 dB
Input power, max.	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	812 X 470 X 70 mm (31.9" X 18.5" X 2.7")
Weight	5 kg.
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Plastic
Mount	MNT-25

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-65
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11
Ice and Snow	25mm radial (survival)

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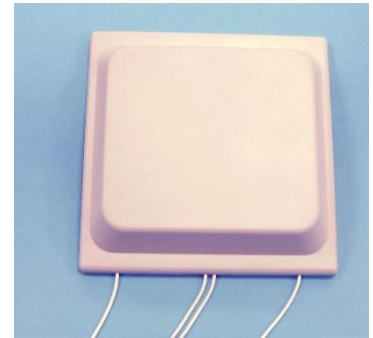
MA-WE2458-MIMO4-5

2.3-2.7 GHz & 4.9-6.1 GHz Dual Band MIMO Applications Sector Antenna, 120°

MARS Dual Band Sector antenna provides coverage of 2.3 to 2.7 GHz & 4.9 to 6.1 GHz in a single antenna radome.

Additional Features:

- Simultaneous coverage of 802.11 a, b, g, e, n, WiMAX & 4.9 GHz Public Safety Bands.
- Light weight and durable construction.
- UV protected radome made of plastic.



Specifications

Electrical

Frequency range	2.3-2.7 GHz & 4.9-6.1 GHz
Peak Gain, typ.	4 x 5 dBi
VSWR, max.	2 : 1 (typ. 1.5 : 1)
Polarization	Double dual Slant $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	120°
3 dB Beam-Width, E-Plane, typ.	70°
Input power, max.	20 Watt
Input Impedance	50 Ohm

Mechanical

Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See Ordering Options
Weight	260 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-WE2458-MIMO4-5	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with provision for Az/EI adjustable for MNT-22 mount
MA-WE2458-MIMO4-5B	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with MNT-22 mount
MA-WE2458-MIMO4-5W	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male, wall mountable
MA-WE2458-MIMO4-5N	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with provision for Az/EI adjustable for MNT-22 mount
MA-WE2458-MIMO4-5NB	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with MNT-22 mount

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MA-WA2455-QPMIMO

5.15 - 5.875 GHz & 2.3 - 2.7 GHz Quad Polarizations MIMO

MARS Quad Polarization antenna provides coverage of 2.3-2.7 GHz frequency

Band and 5.15-5.875 GHz frequency band in a single antenna radome.

Additional Features:

- Specially designed for MIMO applications
- Light weight and durable construction.
- UV Protected radome made of Polycarbonate.



Can be customized per customer requirements

802.11 ac standard applications approved

Specifications

Electrical

Frequency range	2.3 - 2.7 GHz & 5.15-5.875 GHz
GAIN, typ.	Vertical & Horizontal Pol 16 dBi @ 5.15 - 5.875 GHz
	Dual Slant Pol. $\pm 45^\circ$ 12 dBi @ 2.3 - 2.7 GHz
VSWR, max.	1.7 : 1
Polarization	Quad Pole
3 dB Beam-Width, Azimuth, typ.	Vertical, Horizontal@5.15-5.875 GHz & Dual Slant@ 2.3 - 2.7 GHz
3 dB Beam-Width, Elevation, typ.	Dual Slant: 38° ; V & H Pol @ 20°
Side Lobes, min.	Dual Slant: 38° ; V & H Pol @ 20°
Front to Back Ratio, min.	-12 dB
Isolation Between Bands	-30 dB
Input power, max	-30 dB
Input Impedance	10 Watt
Lightning Protection	50 Ohm
	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm.
Connector	4 x N-Type
Weight	1.5 Kg.
Mounting	See Ordering Options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA- WA2455-QPMIMO	Antenna 4 x N-Type connectors Suited for MNT-22 mount
MA- WA2455-QPMIMOB	Antenna 4 x N-Type connectors with MNT-22 mount

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MA-WD2455-DS18

2.3 – 2.7 GHz & 5.1 – 5.9 GHz, 4X4 Dual Band, Dual-Slant Base Station Antenna, 90°

MARS MA-WD2455-DS18 is a 4X4 (MIMO) high gain antenna with Dual band, Dual Slant antenna provides coverage of 2.3-2.7 GHz frequency band and 5.1-5.9 GHz frequency band in a single antenna radome.

Additional Features:

- Designed to meet WAVE2, 802.11ac & more.
- Easy mounting allowing Az/EI adjustment.



Specifications

Electrical

Frequency range	2.3-2.7 GHz	5.1-5.9 GHz
Gain, typ.	16 dBi	18 dBi
VSWR, max.	2.0 : 1	
Polarization, Dual-Slant	±45°	±45°
3 dB Beam-Width, Azimuth, typ.	90°	90°
3 dB Beam-Width, Elevation, typ.	8°	4°
Side Lobes, min.	-10 dB	
Cross Polarization, typ.	-15 dB	
Front to Back Ratio, min.	-32 dB	
Port to Port Isolation, min. Intra-band	-17 dB	-30 dB
Inter-band	-35 dB	
Input power, max	50 Watt	
Input Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	807 x 464 x 50 mm (31.77" x 18.27" x 1.97")
Weight	3 Kg.
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Plastic
Mount	MNT-25

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-65
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11

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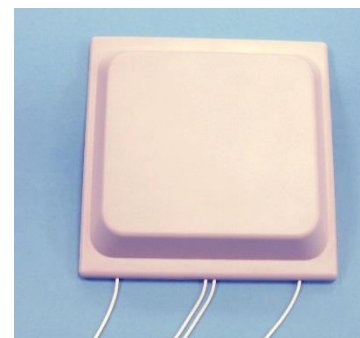
MA-WC2458-MIMO4-8

2.4-2.5 GHz & 5.15-5.875 GHz Dual Band MIMO Applications Sector Antenna 60°

MARS Dual Band Sector antenna provides coverage of 2.4 to 2.5 GHz & 5.15 to 5.875 GHz in a single antenna radome.

Additional Features:

- Wide coverage.
- Total 4 outputs.
- Simultaneous coverage of LTE, 802.11 a, b, g, e, n, WiMAX.
- Point-to-Multi Point, ISM and WLL applications.
- Lightweight and durable construction.
- Quick and easy installation.
- UV protected radome made of polycarbonate.



Specifications

Electrical

Frequency range	2.4-2.5 GHz & 5.15-5.875 GHz
Peak Gain, typ.	4 x 6 dBi
VSWR, max.	2 : 1
Polarization	Double dual Slant $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	60°
3 dB Beam-Width, E-Plane, typ.	60°
Port to Port Isolation, typ.	-25dB
Front to Back, min.	-25dB
Input power, max.	20 Watt
Input Impedance	50 Ohm

Mechanical

Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See Ordering Options
Weight	260 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Wind Load	220 km/h

Ordering Options

MA-WC2458-MIMO4-8	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with provision for Az/EI adjustable for MNT-22 mount
MA-WC2458-MIMO4-8B	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with MNT-22 mount
MA-WC2458-MIMO4-8W	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male, wall mountable
MA-WC2458-MIMO4-8N	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with provision for Az/EI adjustable for MNT-22 mount
MA-WC2458-MIMO4-8NB	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with MNT-22 mount

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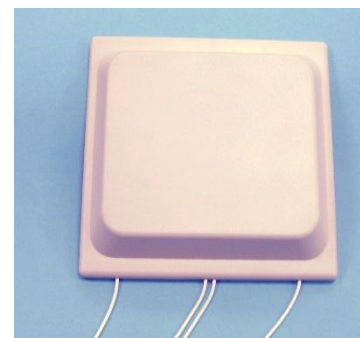
MA-WC2458-QP6

2.4-2.5 GHz & 5.15-5.875 GHz Dual Band Quad pole Sector Antenna 60°

MARS Dual Band Sector antenna provides coverage of 2.4 to 2.5 GHz & 5.15 to 5.875 GHz in a single antenna radome.

Additional Features:

- Wide coverage.
- Total 4 outputs.
- Simultaneous coverage of LTE, 802.11 a, b, g, e, n, WiMAX.
- Point-to-Multi Point, ISM and WLL applications.
- Lightweight and durable construction.
- Quick and easy installation.
- UV protected radome made of polycarbonate.



Specifications

Electrical

Frequency range	2.4-2.5 GHz & 5.15-5.875 GHz
Peak Gain, typ.	4 x 6 dBi
VSWR, max.	2 : 1
Polarization	Dual Slant $\pm 45^\circ$ & Vertical & Horizontal
3 dB Beam-Width, H-Plane, typ.	60°
3 dB Beam-Width, E-Plane, typ.	60°
Port to Port Isolation, typ.	-25 dB @ 2.4 GHz; -30dB @ 5.5 GHz
Front to Back, min.	-25dB
Input power, max.	20 Watt
Input Impedance	50 Ohm

Mechanical

Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See Ordering Options
Weight	260 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Wind Load	220 km/h

Ordering Options

MA-WC2458-QP6	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with provision for Az/EI adjustable for MNT-22 mount
MA-WC2458-QP6B	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male with MNT-22 mount
MA-WC2458-QP6W	Antenna 4 x 75cm Pigtail RG 316 with right angle RPSMA Male, wall mountable
MA-WC2458-QP6N	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with provision for Az/EI adjustable for MNT-22 mount
MA-WC2458-QP6NB	Antenna 4 x 75cm Pigtail RG 316 with N-Type Male with MNT-22 mount

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MA-WD2455-DBDP17

2.4-2.5 GHz & 5.1-5.9 GHz, 4X4 Dual Band, Dual Polarization Base Station Antenna 90°

MARS MA-WD2455-DBDP17 is a 4X4 (MIMO) high gain antenna with Dual band, Dual polarization antenna provides coverage of 2.4-2.5 GHz frequency band and 5.1-5.9 GHz frequency band in a single antenna radome.

Additional Features:

- Designed to meet WAVE2, 802.11ac & more.
- Easy mounting allowing Az/EI adjustment.



Specifications

Electrical

Frequency range	2.4-2.5 GHz	5.1-5.9 GHz
GAIN, typ.	15 dBi	17 dBi
VSWR, max.	<2 : 1	
Polarization	Vertical & Horizontal	
3 dB Beam-Width, H-Plane, typ.	90°	90°
3 dB Beam-Width, E-Plane, typ.	8°	8°
Side Lobes, typ.	-12 dB	
Front to Back Ratio, typ.	-30 dB	
Port to Port Isolation, typ.	-27 dB	
Input power, max	50 Watt	
Input Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	812 X 330 X 70 mm (TBD)
Weight	3 Kg.
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Plastic
Mount	MNT-25

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-65
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11

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MA-WA55-4QP13

4.9-6.1 GHz Quad Polarization 4x4 MIMO Subscriber Antenna

Mars Quad Polarization antenna provides coverage of 4.9-6.1 GHz frequency Band.

Additional Features:

- Specially designed for MIMO applications
- Light weight and durable construction.
- UV Protected radome made of Polycarbonate.

Can be customized per customer requirements



802.11 ac standard applications approved

Specifications

Electrical

Frequency range	4.9-6.1 GHz
Gain, typ.	4 x 13 dBi
VSWR, max.	1.7 : 1
Polarization Quad Pole	Vertical, Horizontal & Dual Slant ($\pm 45^\circ$)
3dB Beam-Width, H-Plane, typ.	37°
3dB Beam-Width, E-Plane, typ.	37°
Side Lobes, min.	-10 dB
Cross Polarization, typ.	-13 dB
Front to Back Ratio, min.	-25 dB
Port to Port Isolation, min.	-34 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	4 x RA SMA, Female
Weight	400 gr.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11
Ice and Snow	25mm radial (survival)

Ordering Options

MA-WA55-4QP13	Antenna Suited for MNT-23 (optional wall/pole adjustable mount)
MA-WA55-4QP13B	Antenna with MNT-23 mount

Patterns are available on our website

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MA-WC54-2DS17

4.9-6.1 GHz Double Dual Slant Base Station Antenna, 60°

MARS wideband 60° sector antenna provides coverage for 4.9-6.1 GHz band with double dual slant ($\pm 45^\circ$) in a single antenna radome with high aperture efficiency.
 For optimal nulling the antenna internal columns are separated horizontally with 70mm space and the elements spacing is 43mm.



Additional Features:

- Wide coverage
- Total 4 outputs
- Pole or wall mounting
- A possibility of mounting Access Point upon antenna

Specifications

Electrical

Frequency range	4.9-6.1 GHz
GAIN,	4 x 17 $\pm$ 0.5dBi
VSWR, max.	1.7 : 1 (1.5:1 - typ)
Polarization	Dual Slant
3dB Beam-Width, H-Plane, typ.	60°
3dB Beam-Width, E-Plane, typ.	8°
Side Lobes, typ.	-12 dB
Cross Polarization, typ.	-15 dB
Port to Port Isolation, typ.	-30 dB (min. -25 dB)
Front to Back Ratio, min.	-35 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Weight	2 Kg.
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Specifications

MA-WC54-2DS17	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WC54-2DS17B	Antenna with MNT-22 mount

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MA-WA57-QP4MIMO19

4.9-6.425 GHz Quad Polarization 4X4 MIMO Subscriber Antenna

Mars Quad Polarization antenna provides coverage of 4.9-6.425 GHz frequency band.

Additional Features:

- Specially designed for MIMO applications
- Lightweight and durable construction.
- UV Protected radome made of Polycarbonate.

Can be customized per customer requirements



802.11 ac standard applications approved

Specifications

Electrical

Frequency range	4.9-6.425 GHz
GAIN	4.9-5.15 @ 4x18 dBi 5.15-6.425 @ 4x19 dBi
VSWR, max.	1.7 : 1
Polarization Quad Pole	Vertical, Horizontal & Dual Slant ($\pm 45^\circ$)
3 dB Beam-Width-Azimuth, typ.	19°
3 dB Beam-Width-Elevation, typ.	19°
Side Lobes, typ.	-12 dB
Front to Back Ratio, min.	-35 dB
Port to Port Isolation, min.	-34 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.6" x 14.6" x 1.5")
Connector	4 X N-type Female
Weight	2 kg.
Mounting	See Ordering Options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA- WA57-QP4MIMO19	Antenna 4 x N-Type Female connectors Suited for MNT-22 mount
MA- WA57-QP4MIMO19B	Antenna 4 x N-Type Female connectors with MNT-22 mount

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MA-WD55-2DS16

5.1 – 5.9 GHz, Double Dual-Slant (2 x $\pm 45^\circ$), Base Station Antenna, 90°

MARS wideband 90° sector antenna provides coverage for 5.1-5.9 GHz band with double dual slant ($\pm 45^\circ$) in a single antenna radome with high aperture efficiency.

Additional Features:

- Wide coverage
- Total 4 outputs
- Pole or wall mounting
- A possibility of mounting Access Point upon antenna



Specifications

Electrical

Frequency range	5.1 – 5.3 GHz	5.3 – 5.9 GHz
Gain, typ.	15 dBi	16 dBi
VSWR, max.	1.7 : 1	
Polarization	2 x $\pm 45^\circ$	
3 dB Beam-Width, Azimuth, typ.	90°	
3 dB Beam-Width, Elevation, typ.	8°	
Side Lobe Level (Elevation), min.	-10 dB	
Front to Back Ratio, min.	-32 dB	
Port to Port Isolation, min.	-25 dB	
Input power, max	10 Watt	
Input Impedance	50 Ohm	
Lightning Protection	DC Grounded	

Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Weight	1.8 Kg.
Connector	4 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	MNT-22

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11
Ice and Snow	25mm radial (survival)

Ordering Options

MA-WD55-2DS16	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WD55-2DS16B	Antenna with MNT-22 mount

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MA-WA55-QP4MIMO

5.1-5.9 GHz Quad Polarization 4X4 MIMO Subscriber Antenna

Mars Quad Polarization antenna provides coverage of 5.1-5.9 GHz frequency band.

Additional Features:

- Specially designed for MIMO applications
- Lightweight and durable construction.
- UV Protected radome made of Polycarbonate.

Can be customized per customer requirements



802.11 ac standard applications approved

Specifications

Electrical

Frequency range	5.1-5.9 GHz
Gain, typ.	4 X 16 dBi
VSWR, max.	2.0 : 1
Polarization	Quad Pole
3 dB Beam-Width, H-Plane, typ.	Vertical, Horizontal & Dual Slant ($\pm 45^\circ$)
3 dB Beam-Width, E-Plane, typ.	25°
Side Lobes, typ.	25°
Cross Polarization, typ.	-12 dB
Front to Back Ratio, min.	-18 dB
Port to Port Isolation	-30 dB
Input power, max.	-36 dB
Input Impedance	10 Watt
Lightning Protection	50 Ohm
	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (12" x 12" x 0.6")
Connector	See Ordering Options
Weight	1.5 Kg.
Mounting	See Ordering Options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA55-QP4MIMO	Antenna with 4xN-Type Female connectors suitable for MNT-22
MA-WA55-QP4MIMOB	Antenna with 4xN-Type Female connectors with MNT-22 mount
MA-WA55-QP4MIMOSMELY	Antenna with large enclosure, 4xPigtails with SMA Connectors and MNT-22

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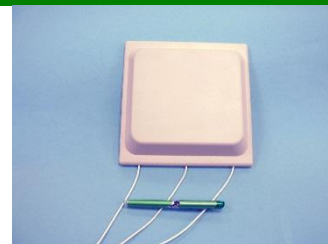
MA-WE2458-3H

2.3-2.7 GHz & 4.9-6.1 GHz Dual Band MIMO Applications Sector Antenna, 120°

MARS Dual Band Sector antenna provides coverage of 2.3 to 2.7 GHz & 4.9 to 6.1 GHz in a single antenna radome.

Additional Features:

- Simultaneous coverage of LTE, 802.11 a, b, g, e, n, WiMAX & 4.9 GHz Public Safety Bands.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.



Specifications

Electrical

Frequency range	2.3-2.7 GHz & 4.9-6.1 GHz
GAIN, typ.	3 x 5 dBi
VSWR, max.	2 : 1 (typ. 1.5 : 1)
Polarization	Vertical & 2 Dual Slant $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	120°
3 dB Beam-Width, E-Plane, typ.	70°
Input power, max.	20 Watt
Input Impedance	50 Ohm

Mechanical

Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See ordering options
Weight	400 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	See Ordering Options

Environmental

Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-WE2458-3H	Antenna 3 x Coaxial Cable RG 316 with RPSMA, wall mountable
MA-WE2458-3H2	Antenna 3 x Coaxial Cable RG 316 with N-Type male with provision for Az/EI adjustable for MNT-22 mount
MA-WE2458-3H2B	Antenna 3 x Coaxial Cable RG 316 with N-Type male with MNT-22 mount

Patterns are available on our website

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MA-WC2458-3H

2.4-2.5 GHz & 5.15-5.875 GHz Dual Band Small Sector Antenna, 60°

MARS Dual Band Sector antenna provides coverage of 2.4 to 2.5 GHz & 5.15 to 5.875 GHz in a single antenna radome.

Additional Features:

- Wide coverage.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.



Specifications

Electrical

Frequency range	2.4-2.5 GHz & 5.15-5.875 GHz
GAIN, typ.	3 x 7.5 dBi
VSWR, max.	1.8 : 1
Polarization	Linear Vertical & Dual Slant $\pm 45^\circ$
3 dB Beam-Width, H-Plane, typ.	70° @ 2.4-2.5 GHz; 65° @ 5.15-5.875 GHz
3 dB Beam-Width, E-Plane, typ.	65° @ 2.4-2.5 GHz; 60° @ 5.15-5.875 GHz
Input power, max.	20 Watt
Input Impedance	50 Ohm

Mechanical

Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See ordering options
Weight	400 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	See ordering options

Environmental

Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-WC2458-3H	Antenna 3 x Coaxial Cable RG 316 with RPSMA Male, wall mountable
MA-WC2458-3H2	Antenna 3 x Coaxial Cable RG 316 with N-Type Male with provision for Az/EI adjustable for MNT-22 mount
MA-WC2458-3H2B	Antenna 3 x Coaxial Cable RG 316 with N-Type Male with MNT-22 mount

Patterns are available on our website

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MA-WA24-TPMIMO

2.3-2.7 GHz Triple Polarization MIMO Subscriber Antenna

MARS Triple Polarization antenna provides coverage of 2.3-2.7 GHz frequency band in a single antenna radome.

Additional Features:

- Specially designed for MIMO applications.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Can be customized with customer defined back plane and different connector configurations.



Specifications

Electrical

Frequency range	2.3-2.7 GHz
GAIN	Vertical Pol. 15 ± 1 dBi
	Dual Slant Pol. 12 ± 1dBi
VSWR, max.	1.7 : 1
Polarization	Dual Slant ±45° and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant: 38°; V- Pol 37°
3 dB Beam-Width-Elevation, typ.	Dual Slant: 38°; V- Pol 21°
Side Lobes, min.	-12 dB
Front to Back Ratio, min.	-30 dB
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (12" x 12" x 0.6")
Connector	3 x N-Type Female
Weight	1.5 Kg.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA24-TPMIMO	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WA24-TPMIMOB	Antenna with MNT-22 mount

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MA-WD56-DSV16

4.9-6.1 GHz Triple Polarizations MIMO Base Station Antenna, 90°

MARS Triple Polarization Sector antenna provides coverage of 4.9-6.1 GHz frequency band in a single antenna radome.

Additional Features:

- 3 Ports: Dual Slant ($\pm 45^\circ$) and Vertical Polarization.
- Specially designed for MIMO applications for optimal decorrelation.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Can be customized with customer defined back plane and different connector configurations.



Specifications

Electrical

Frequency range	4.9-6.1 GHz
GAIN: Vertical Pol.	16 dBi
Dual Slant Pol.	16 dBi
VSWR, max.	1.7 : 1
Polarization	Dual Slant: $\pm 45^\circ$ and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant: 90° ; V- Pol 90°
3 dB Beam-Width-Elevation, typ.	Dual Slant: 8° ; V- Pol 8°
Front to Back Ratio, min.	-30 dB
Port to Port Isolation, min.	-30 dB
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Connector	3 x N-Type Female
Weight	2.1 Kg.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WD56-DSV16	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WD56-DSV16B	Antenna with MNT-22 mount

Patterns are available on our website

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MA-WA55-TPMIMO

5.125-6.1 GHz Triple Polarization MIMO Subscriber Antenna

MARS Triple Polarization antenna provides coverage of 5.125-6.1 GHz frequency band in a single antenna radome.

Additional Features:

- 3 Ports: Dual Slant ($\pm 45^\circ$) and Vertical Polarization.
- Specially designed for MIMO applications for optimal decorrelation.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Can be customized with customer defined back plane and different connector configurations.



Specifications

Electrical

Frequency range	5.125-6.1 GHz
GAIN	19 dBi
Vertical Pol.	17.5 dBi
Dual Slant Pol.	
VSWR, max.	1.7 : 1
Polarization	Dual Slant $\pm 45^\circ$ and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant: 20° ; V- Pol 22°
3 dB Beam-Width-Elevation, typ.	Dual Slant: 19° ; V- Pol 14°
Side Lobes, min.	-12 dB
Front to Back Ratio, min.	-35 dB
Port to Port Isolation	-40 dB (Vertical to $\pm 45^\circ$ Dual Slant)
Port to Port Isolation	-30 dB ($+45^\circ$ Dual Slant to -45° Dual Slant)
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (12" x 12" x 0.6")
Connector	See Ordering Options
Weight	1.5 kg.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WA55-TPMIMO	Antenna with 3 x N-Type Female connectors Suited for MNT-22
MA-WA55-TPMIMOB	Antenna with 3 x N-Type Female connectors with MNT-22 mount
MA-WA55-TPMIMOSMELY	Antenna with large enclosure, 3 x RA SMA female Connectors and MNT-22
MA-WA55-TPMIMOSMELZ	Antenna with large enclosure, 3 x RA SMA female Connectors with PEMs and MNT-22

Patterns are available on our website

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